CLAIMS

1. A heat exchange type ventilator comprising:

an exhaust-air coupling section communicating with outdoors via a duct for forming an exhaust-air channel and coupled to a lateral side of the ventilator;

a supply-air coupling section communicating with outdoors via a duct for forming a supply-air channel and coupled to a lateral side of the ventilator; and

a ventilating unit shaping like a box and including an exhaust-air outlet for sucking stale interior air through an opening disposed on an underside of the ventilating unit and a supply-air inlet for drawing fresh outside air into a room, the ventilating unit comprising;

a motor for driving an exhaust-air fan and a supply-air fan;

a heat exchanger for recovering exhausted heat between the interior air sucked through the exhaust-air outlet and the fresh outdoor air drawn in;

a cut-off damper for cutting off a flow of the supply-air in the supply-air channel running from the supply-air coupling section to the supply-air inlet; and

supply-air temperature sensing means for sensing a temperature of the outside air drawn in,

wherein the cut-off damper cuts off the flow of the supply-air based on a signal issued from the supply-air temperature sensing means, so that an exhaust-air volume exhausted by the exhaust-air fan is reduced.

2. The heat exchange type ventilator of claim 1 further comprising

sensing-temperature setting means which can arbitrarily set or change a temperature to be sensed by the supply-air temperature sensing means.

3. The heat exchange type ventilator of claim 1 or claim 2 further comprising a timer which can arbitrarily set a closing time of the cut-off damper.

4. The heat exchange type ventilator of claim 1, 2 or 3, wherein the ventilating unit further includes an on/off valve which allows a part of the exhaust-air channel running from the exhaust-air coupling section to the exhaust-air outlet to communicate with the supply-air channel in part.

5. The heat exchange type ventilator of any one of claim 1 through claim 4 further comprising heating means for preheating the supply-air drawn in through the supply-air coupling section just before the supply-air passes through the heat exchanger.

6. The heat exchange type ventilator of any one of claim 1 through claim 5, wherein the supply-air temperature sensing means is detachable, and mountable anyplace in the supply-air channel.

7. The heat exchange type ventilator of any one of claim 1 through claim 6, wherein the exhaust-air fan and the supply-air fan are driven by a DC motor.

8. The heat exchange type ventilator of any one of claim 1 through claim 7 further comprising:

rpm sensing means for sensing an rpm of the exhaust-air fan; and

rpm control means for controlling an rpm of the exhaust-air fan based on a signal issued from the rpm sensing means.

9. The heat exchange type ventilator of any one of claim 1 through claim 7 further comprising:

static pressure sensing means for sensing a static pressure in the exhaust-air channel; and

rpm control means for controlling an rpm of the exhaust-air fan based on a signal issued from the static pressure sensing means.

10. The heat exchange type ventilator of any one of claim 1 through claim 7 further comprising:

air volume sensing means for sensing a volume of the exhaust-air; and

rpm control means for controlling an rpm of the exhaust-air fan with a signal issued from the air volume sensing means.